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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,362	12/22/2000	David W. Green	D5407-123 584-25557-US	2196
75	90 02/20/2004		EXAMINER	
Gary R. Maze		DAS, CHAMELI		
Duane, Morris &	& Heckscher LLP			
Suite 500			ART UNIT	PAPER NUMBER
One Greenway Plaza			2122	
Houston, TX 77046			DATE MAILED: 02/20/2004	. (

Please find below and/or attached an Office communication concerning this application or proceeding.

4

		Application No.	Applicant(s)	
		09/746,362	GREEN ET AL	
Office Action Summary		Examiner	Art Unit	
		C.DAS	2122	
Period fo	Th MAILING DATE of this communication or Reply	n appears on the cover sh	eet with the correspondence add	lress
THE   - Exter after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, or period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by reply received by the Office later than three months after the period for reply will. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, on. a reply within the statutory minimur period will apply and will expire SIX statute, cause the application to be	may a reply be timely filed  n of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this corone ABANDONED (35 U.S.C. § 133).	mmunication.
1)⊠	Responsive to communication(s) filed on	<u>22 December 2000</u> .		
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.		
3)	Since this application is in condition for al closed in accordance with the practice un			merits is
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) <u>1-10</u> is/are pending in the applicated 4a) Of the above claim(s) is/are with Claim(s) is/are allowed.  Claim(s) <u>1-10</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction as	hdrawn from consideratio		
Applicati	ion Papers			
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the country The oath or declaration is objected to by the specification is objected to by the Example The specification is objected to be specification in the specification is objected to be specification.	accepted or b) object o the drawing(s) be held in a orrection is required if the dr	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CFI	, ,
•	under 35 U.S.C. §§ 119 and 120	Daminor. Hoto the at		
12) \( \begin{array}{c} & \text{ * S} \\ 13) \( \begin{array}{c} A \\ S \\ 3 \\ a \\ 14) \( \begin{array}{c} A \\ 1 \end{array} \end{array} \]	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docured Copies of the priority docured Copies of the priority docured Copies of the certified copies of the application from the International Base the attached detailed Office action for Acknowledgment is made of a claim for dorince a specific reference was included in the Table Copies of the foreign language Acknowledgment is made of a claim for doresterence was included in the first sentence	ments have been receive ments have been receive priority documents have ureau (PCT Rule 17.2(a)) a list of the certified copie mestic priority under 35 Une first sentence of the space provisional application mestic priority under 35 Une first sentence of the space provisional application	d. d in Application No been received in this National S bes not received. J.S.C. § 119(e) (to a provisional secification or in an Application E has been received. J.S.C. §§ 120 and/or 121 since a	application) Data Sheet. a specific
Attachmen	t(s)			
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N	8) 5) Not	rview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO- er:	

Page 2

Application/Control Number: 09/746,362

Art Unit: 2122

#### **DETAILED ACTION**

1. Claims 1-10 are pending.

#### **Priority**

2. Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged.

### Specification

3. The disclosure is objected to because of the following informalities: missing application information in lines 12-13 and 17-18 of page 1 of the specification, in lines 1-13 and 17-18 of page 5, in lines 2-3 of page 6, line 17 of page 28. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 and further in view of Hardiman et al, (Hardiman), US 5,504,672.

#### As per claim 1, Helland discloses:

- at least one memory store operatively connected to the processing unit (Helland, col 4 lines 62-67)

- extensible N-tier software resident in and executable within the at least one processing unit (Helland, abstract, col 4 lines 3-7, col 7 lines 5-10)

- inventory of software components resident in the memory store for use by the software (abstract, col 5 lines 37-45)
- an input device... processing unit (col 5 lines 13-16)
- an output device ... processing unit (col 5 lines 13-16)
- at least one tier created by the extensible N-tier .. software component (abstract, col 6 lines 41-50, col 13 lines 25-35, col 20 lines 20-29).

Helland discloses the software component being selectively representative of a requirement of an application program (col 6 lines 40-52).

Helland does not specifically disclose that the software is an asset of the petroleum company. However, Hardiman disclose that the software is an asset of the petroleum company (Hardiman, col 11 lines 61-67, col 12 lines 1-2). The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for an industrial application.

As per claim 2, neither Helland nor Hardiman disclose that the software comprises field components, well components and log components. However, official notice is taken for field components, well components and log components for the oil field. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for petroleum industry efficiently.

As per claim 3, Helland discloses the output device display ... combination thereof (col 5 lines 45-55, col 6 lines 40-52, col 7 lines 5-10).

As per claim 4, applications generated using the N-tier software (Abstract, col 6 lines 41-52, col 7 lines 5-10, col 20 lines 20-30), applications generated using the N-

Application/Control Number: 09/746,362 Page 4

Art Unit: 2122

tier software in response to internal trigger, external trigger (col 6 lines 60-63, col 9 lines 20-37).

Helland discloses the additional software may be created (col 4 lines 40-47). Helland does not specifically disclose that the additional software may be created or modified by user input. However, the back ground section of Helland disclosure shows the software may be created or modified by user input (col 2 lines 55-62).

The background section does not specifically disclose modified manually by the user. However, official notice is taken for modifying the method *manually* by the user. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a user friendly method.

Helland does not specifically disclose that software is generated *automatically*. However, official notice is taken for *automatically* generating the software. The modification would be obvious because one of the ordinary skill in the art would be motivated to provide as much automation as possible to reduce the work load on the developer and thus make the system easier to use.

#### Regarding claim 5, Helland discloses:

- selecting a software component from an inventory of software components...
   subset of assest of the set of assest (col 23 lines 5-10)
- obtaining a software component from outside the inventory ... from the inventory (col 9 lines 40-60, col 14 lines 38-45)
- defining relationships for each selected ... with tier (abstract, col 2 lines 63-67 and col 3 lines 1-5, col 4 lines 38-60, col 11 lines 5-15, col 23 lines 5-10)
- defining the sequencing of each of the software components ... invocable application (col 6 lines 40-65)
- whereby the requirements... satisfied (col 23 lines 5-15).

For the rest of the limitations see the rejection of claim 1 above.

Regarding claim 7, Helland discloses a change menu programmatically accessed (Helland, col 11 lines 27-32). Helland does not disclose change menu may be manually accessed. However, official notice is taken for modifying the method manually by the user. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a user friendly method.

### Regarding claim 8, Helland discloses:

- creating one or more processing software components to process data ... predefined amount of data (col 9 lines 42-48, col 7 lines 26-29, col 9 lines 55 col 10 lines 1-12, col 17 lines 21-27).

#### Regarding claim 9, Helland discloses:

- software components are distributed... units (col 3 lines 61-66, col 4 lines 54-60).

  \*Regarding claim 10, Helland discloses:
- a computer program embodied within a computer readable medium (col 5 lines 20-35).
- 5. Claims 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 further in view of Hardiman et al, Hardiman, US 5,504,672 and McDonald et al, US 5,978,582.

### Regarding claim 6, Helland discloses:

- selecting the software component from an inventory of software components (Helland, col 23 lines 5-10)
- associating one or more components (Helland, col 14 lines 60- col15 lines 1-45).

Application/Control Number: 09/746,362

Art Unit: 2122

Helland does not specifically disclose that the selected software components represent predetermined number of components. However McDonald discloses that implementing a software object by selecting the component which represents the predetermined number of components (McDonald, abstract, col 30 lines 1-6, col 11 lines 51-60). Hardiman disclose that the software is an asset of the petroleum company (Hardiman, col 11 lines 61-67, col 12 lines 1-2). The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for an industrial application.

Neither Helland nor Hardiman disclose that the software comprises field components, well components and log components. However, official notice is taken for field components, well components and log components for the oil field. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for petroleum industry efficiently.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Multi-tier debugging, US 6202200 B1

TITLE: Flexible multi-platform partitioning for computer applications, US 5457797 A

TITLE: Point of sale system, method of operation thereof and programming for control thereof, US 6067527 A

TITLE: Distributed input/output system, US 4870564 A

TITLE: Method and apparatus for enabling server side distributed object modification, US 6263498 B1

TITLE: Component transaction server for developing and deploying transactionintensive business applications, US 6266666 B1 Application/Control Number: 09/746,362 Page 7

Art Unit: 2122

TITLE: Controller for well installations, US 4916617 A

Any inquiry concerning this communication or earlier communications from the 7.

examiner should be directed to Chameli Das whose telephone number is 703-305-1339.

The examiner can normally be reached on Monday-Friday from 7:00 A.M. to

3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor Tuan Dam can be reached at 703-305-4552. The fax number for this

group is (703) 872-9306.

An inquiry of general nature or relating to the status of this application or

proceeding should be directed to the group receptionist whose telephone number is

703-305-9600.

CHAMELI C. DAS PRIMARY TYAMINER

Art Unit 2122

2/14/04

Charle C. Don CHAMELI C. DAS PRIMARY EXAMINER